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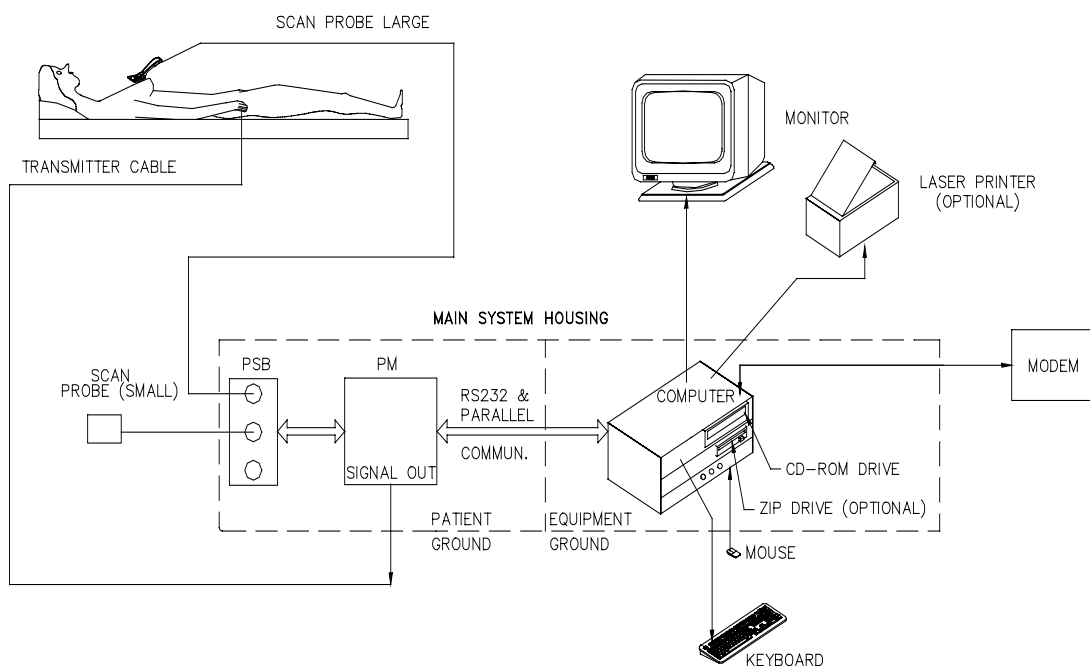
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# Prerequisites

## General

 **Note:** This section is intended for use by **authorized** Service Personnel only. The customer should NOT perform installation nor service the system.

The configuration of the TS2000 is dependent on the number of probes supplied with the system. The System can handle two different probes, small and large.



# Appliances and Tools

1 Service Phantom (optional)

2 Digital multi meter

## WARNING!

For safety reasons the existing protective ground conductor in the power cord of the TS2000 system must not be disconnected under any circumstances.

## *Tools Required*

Standard installation tool kit should include the following:

- Sharp scissors to open the surrounding bands
- Set of screwdrivers, cutter and pliers

## Protective Measures

It is very important that prior to any intervention, the system must be disconnected from the power supply using the main circuit breaker (positioned at the back of the system cart). Additionally, before removing or inserting any printed circuit boards, switch off the equipment.

**! CAUTION:** The P.C. boards contain highly sensitive electrostatic components requiring ESD handling (ground before making contact and place only on a conductive surface).

# Preparatory work

## *Scope of delivery*

The TS2000 system is normally packed in three boxes on a wooden palette and includes:

In Box 1:

- TS2000 Assembled System
- TS2000 Manual
- Quality Control Kit (service phantom, transmitter cable, fuses, Zip disk) (optional)

In Box 2:

- High-resolution 17" monitor


In Box 3:

- Laser Printer (optional)

## *Unpacking the System*


**! CAUTION** Before unpacking check the shock indicator to assure no damage has occurred.

As a general rule the directional marks on the boxes should be observed during transport, storage and unpacking.

 **Note:** The cardboard boxes, steel weights and the wooden palette are made of recyclable material.

# Mains connection and power supply

## *Mains voltage connection*

 **Note:** Make sure that the voltage marked on the TS2000 System fits the supply voltage in the mains.

Make sure that the electrical wall socket has a suitable ground connection.

If the electrical plug supplied with the system does not fit your socket, replace it with a MEDICAL GRADE PLUG.

## Installing the System

- 1 Take the two wooden triangular pieces attached to the wooden ramp that is supplied with the system and place them under the two rear wheels.
- 2 Place the ramp at the rear of the palette. Then push the cart towards it and slowly down until the cart is safely on the floor.
- 3 Remove the accessories box from the lower part of the cart and unpack it.
- 4 Remove the two cardboard pieces supporting the TSP (main unit).
- 5 Unpack the mouse and keyboard and place them in their position.
- 6 If a printer is supplied, follow the instructions below for setup.
- 7 Remove the monitor from its box and place it on top of the cart. Connect the data and power cables to the back of the monitor.
- 8 Check the main power plug. Replace (if necessary), or connect a new one.
- 9 Connect power plug to power socket.

## *Laser Printer Setup (Optional)*

To set up the optional Laser printer:

**! CAUTION:** Check that the correct voltage for your country is displayed on the back panel of the printer (for U.S. 115VAC; for Europe 230VAC).

- 1 Set up the system following the directions listed above. The system power should be turned off before continuing with the printer setup procedure.

- 2 Open the Laser printer box, take the printer out and place it on the floor in front of the bottom shelf (third shelf) of the cart.
- 3 Connect the printer data cable to the printer.
- 4 Connect the power cable from the Isolation Transformer to the printer.
- 5 Turn the printer ON.
- 6 Slide the printer back into the shelf until it is secured.
- 7 Slide the paper tray out and fill it with paper. Slide the tray back in.
- 8 Turn ON the main power switch on the back of the system.

## ***Modem Setup***

The modem is part of the TeleService package and is installed in the factory.

- 1 Connect the telephone cable to the wall socket (if necessary replace the cable or the plug to fit your telephone system). Thread the Modem telephone cable through the rear panel.
- 2 Turn ON the main power switch on the back of the system.
- 3 Switch the system ON with the main switch located at the front of the TS2000 System.
- 4 Verify that the Modem turns on together with the system.
- 5 Verify that the Modem is initialized during the Windows startup session and make sure that the lamp marked TR is ON (for analog type modem).
- 6 Switch OFF the system with the front switch

## ***Probes***

- 1 Take the probes out from their box.
- 2 Connect the small probe to the P1 socket and the large probe to the P2 socket of the PSB (Probe selection Box, at the rear).
- 3 Connect the reference source cable to the BNC connector on the PM board at the rear of the main unit. Connect the clip end to the cylinder.
- 4 Secure probe and source electrode cables using the cable holder located at the end of the probe holder. Make sure the probe cables do not touch the floor.

# Startup and Functional Test of TS2000

## ***Getting to the Startup Screen***

- 1 Make sure that all parts of the systems are mounted and properly connected.
- 2 Make sure that the main power switch at the rear of the system is ON.
- 3 Switch the system ON with the main switch located at the front of the TS2000 System.
- 4 The system will start up and then load the Windows NT operating system (pauses will occur during the Windows NT startup), and will then continue to load the TS2000 software. The system will be ready for TS2000 procedures when the TS2000 Welcome screen is on and internal calibrations have been completed.

## ***Site Name Adjustment***

- 1 Click Database from TS2000 Welcome screen.
- 2 Click on the Service menu and select Site Info.
- 3 Fill in the site information. In the Database site code field enter the system serial number. In case of several systems in the same site, enter the serial number of the first system.
- 4 Click OK.
- 5 Click Shutdown.

## ***Time and Date Adjustment***

- 1 Exit to Windows.
- 2 Double-click on the time in the lower right corner of the screen.
- 3 Select date and time (if not selected).
- 4 Adjust the local time and date.
- 5 Click OK.

## Checking the System

### ***Checking the Modem***

The initialization of the modem is done automatically during the Windows Startup.

A PC ANYWHERE icon will appear at the bottom of the screen (next to the Windows NT START icon) stating PC ANYWHERE - waiting.

### ***Checking the Printer***

- 1** Make sure that the paper tray is loaded.
- 2** From the main screen select the DATABASE icon.
- 3** From Patient List select a patient at random, then select OK.
- 4** Select Replay Exam.
- 5** From the displayed screen select the PRINTER icon. On the following screen click PRINT for the print command.
- 6** Check that the case displayed on the screen was in fact printed.

### ***Archiving to Zip/Restoring to Zip***

- 1** From the database menu click MANAGEMENT.
- 2** From the MANAGEMENT menu select the archive to Zip. (It is sufficient to archive 2 - 3 cases)
- 3** Follow the instructions that appear on the screen.
- 4** At the end of the procedure select YES to remove from database.
- 5** In order to check the restoring procedure, from the MANAGEMENT menu select RESTORE, and follow the instructions.



## ***Measuring the System with the Phantom (Optional)***

See the Accessories Guide located in the manual.

## **Final Procedure**

After you have completed the STARTUP and have checked the system, fill out the enclosed LINA 2 CARD in the system manual cover and mail it to:

**SIEMENS, MED LINA, Henkestr. 127, D-91052 Erlangen, Germany**

Fill out the other forms located in register 'Installation Protocols' and fax to the address listed at the top of each form.